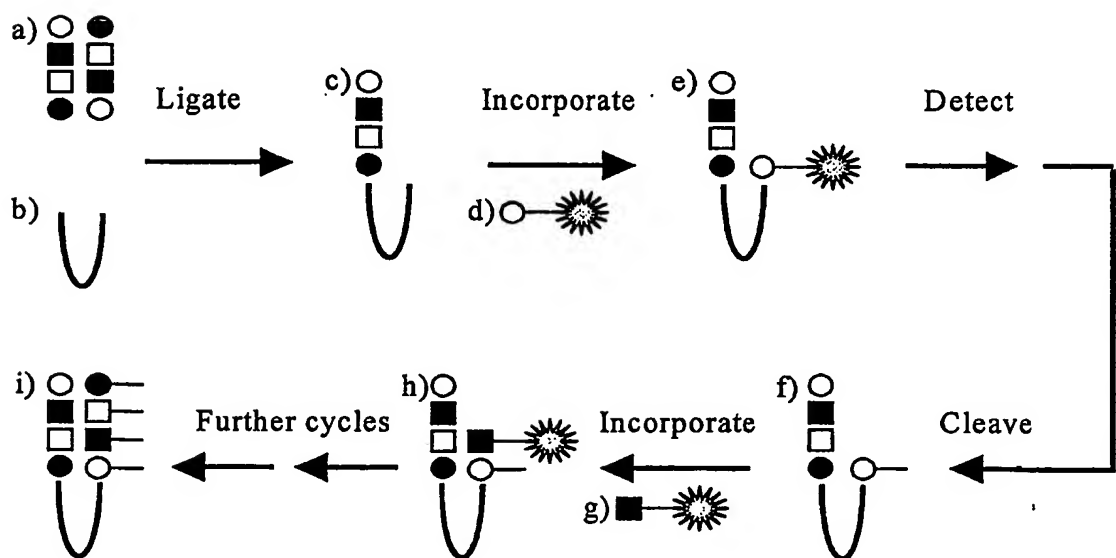
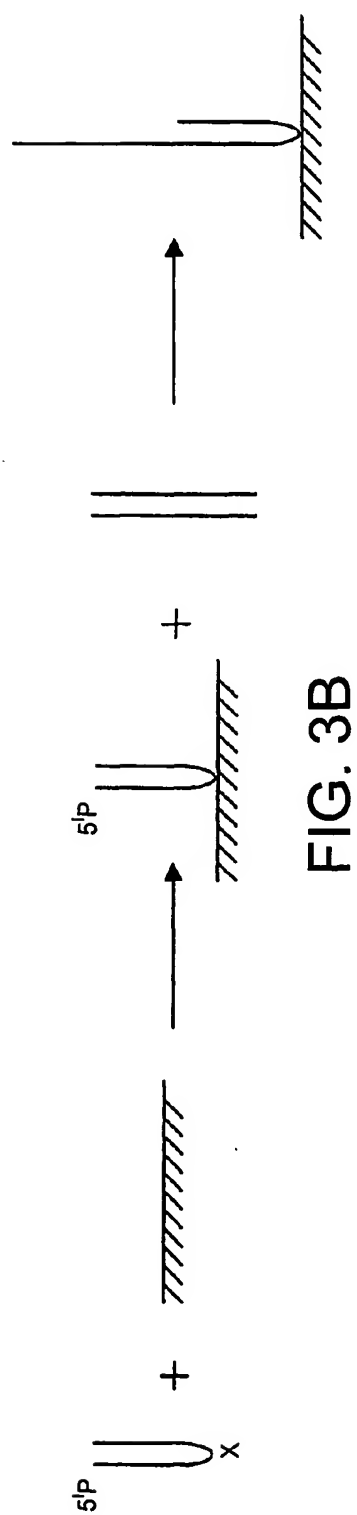
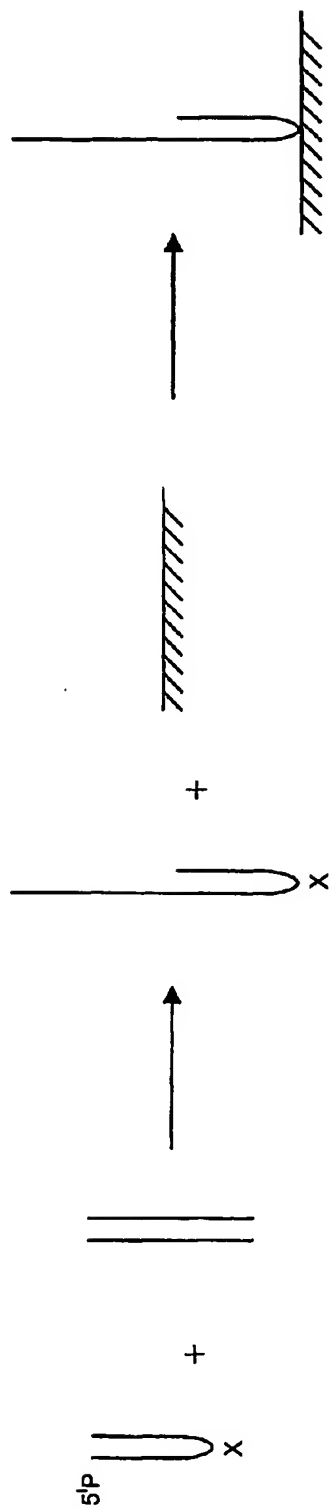


FIG. 1



- a) Double-stranded genomic DNA fragment (each symbol represents a base)
- b) Anchor hairpin DNA
- c) Single strand of genomic DNA template ligated to hairpin
- d) Synthetic nucleotide with fluorescent group
- e) Incorporation of one complementary synthetic nucleotide
- f) Cleavage of fluorescent group from the incorporated synthetic nucleotide
- g) Another synthetic nucleotide with fluorescent group
- h) Incorporation of a second complementary synthetic nucleotide
- i) Template strand base-paired to a complementary synthetic strand

FIG. 2



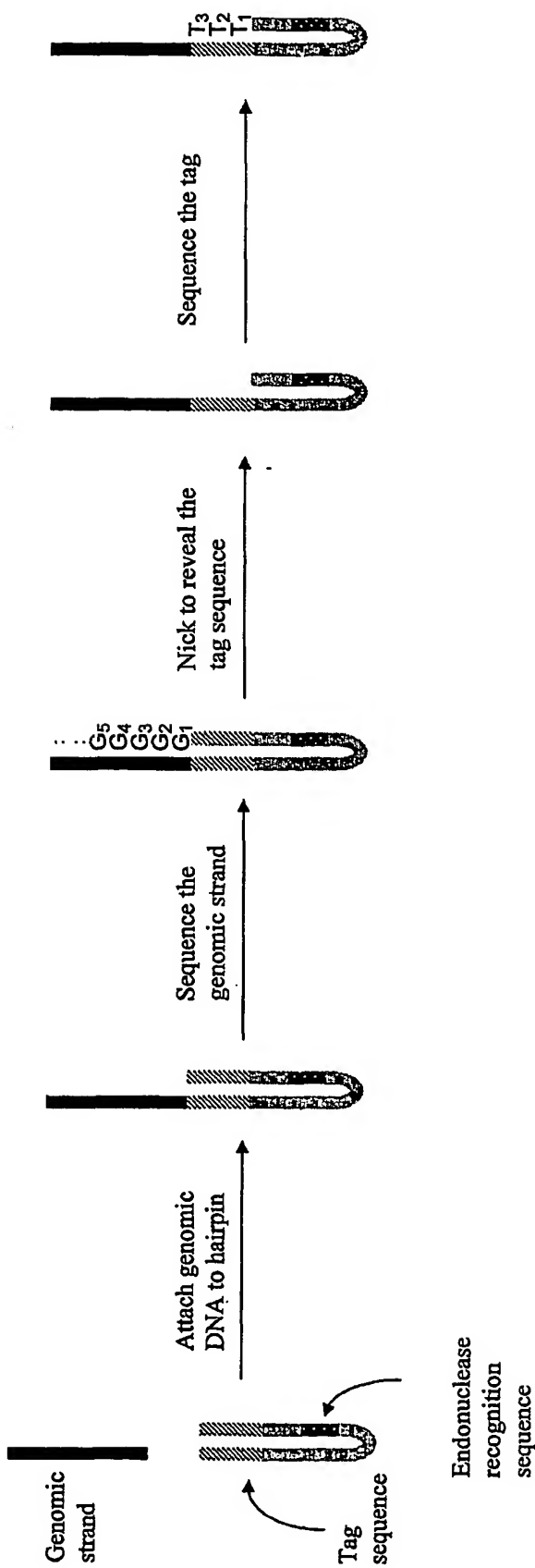


FIG. 4A

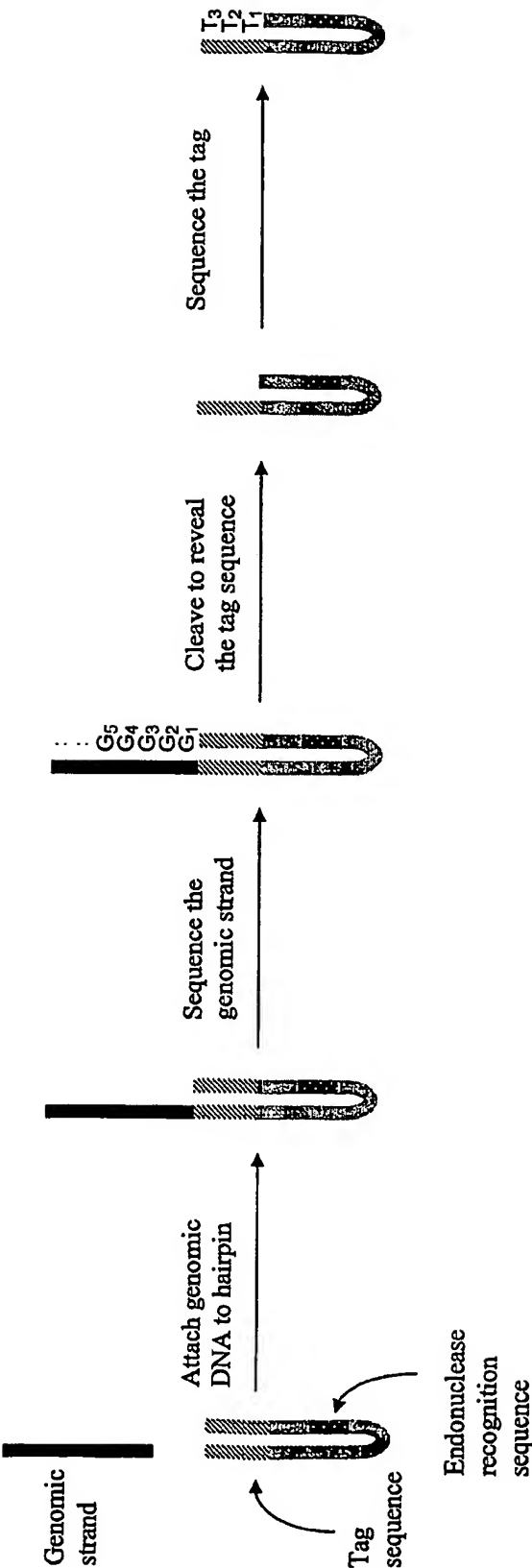


FIG. 4B

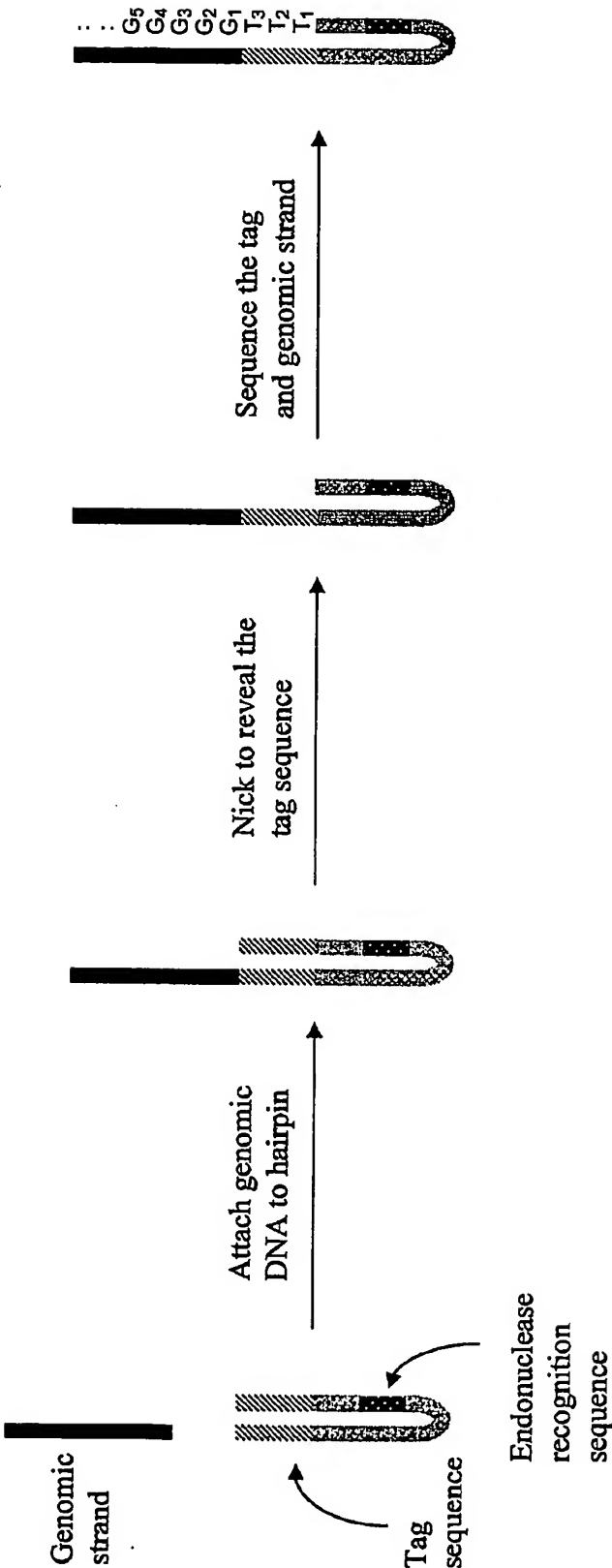


FIG. 4C

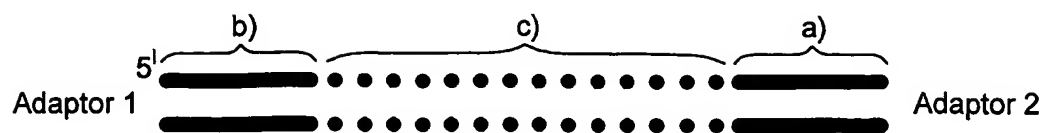


FIG. 5

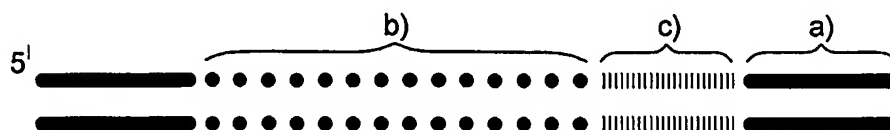


FIG. 6a

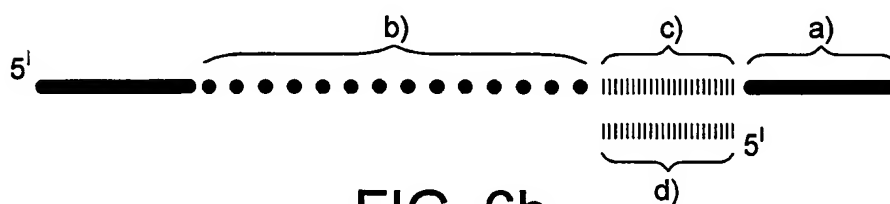


FIG. 6b

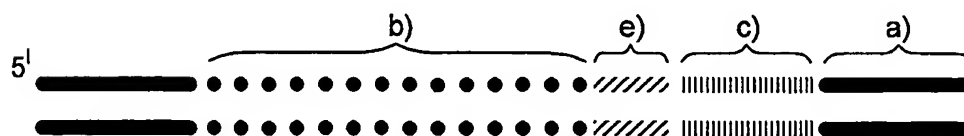


FIG. 7a



FIG. 7b

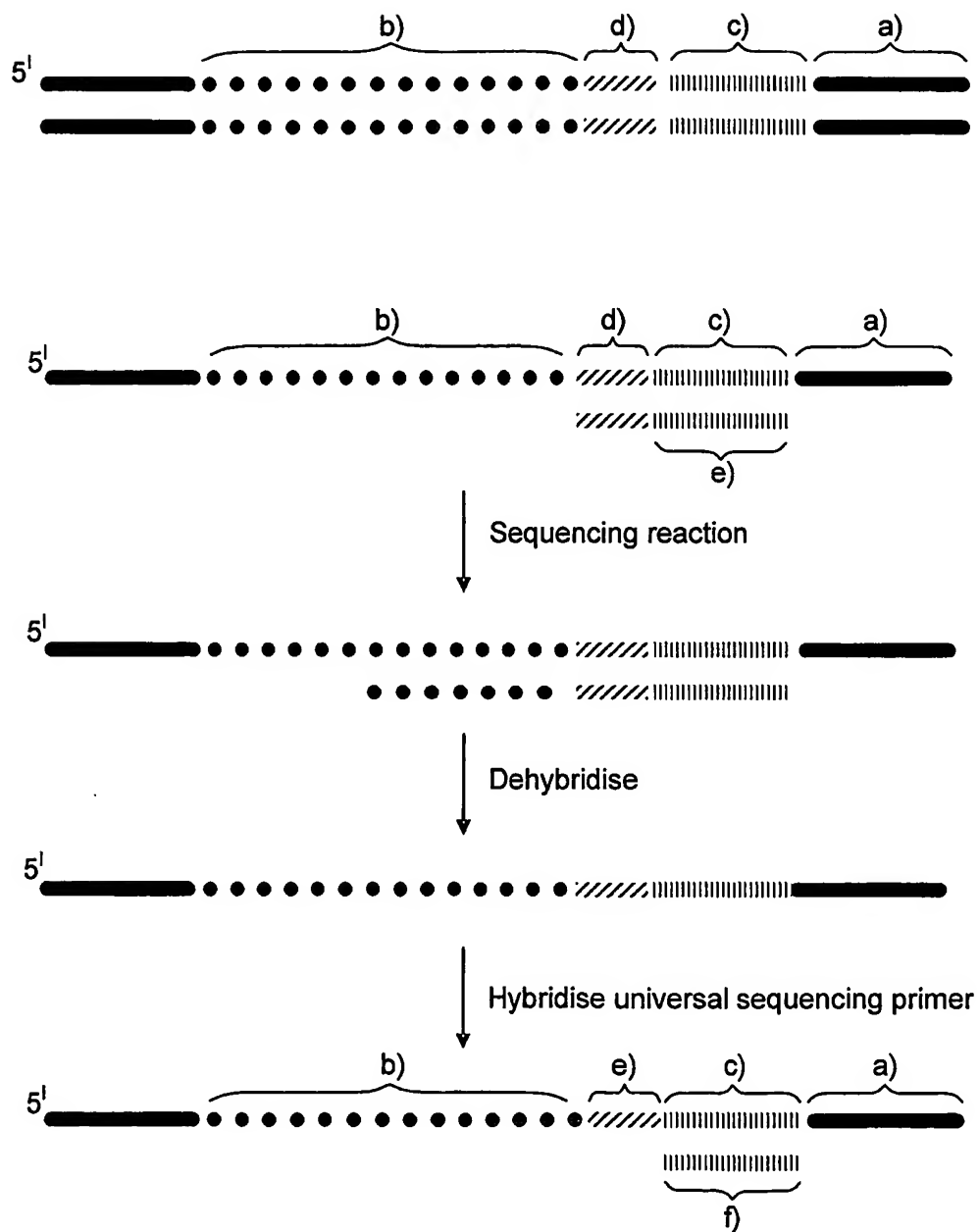


FIG. 8

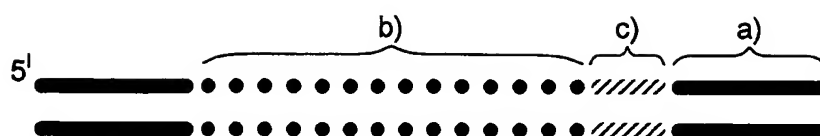


FIG. 9A

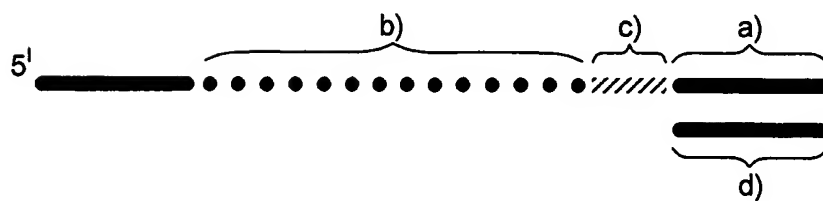


FIG. 9B